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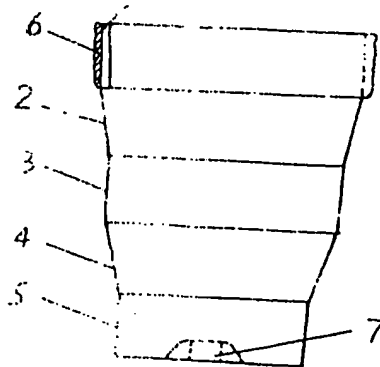
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[54] 实用新型名称 一次性连体折叠杯

[57] 摘要

本实用新型涉及一种便于携带的一次使用的折叠杯。本实用新型克服了现有一次性使用塑料杯不能折叠体积较大不便携带的缺点。本实用新型由多段可折叠在一起的杯体、杯底部向内凹的扣拉槽和装在杯体最上段外沿上的隔热纸圈构成。杯体一次注塑而成。杯子向下一压就可折叠起来。



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权 利 要 求 书

1、一种一次性连体折叠杯，其特征在于：它由多段可折叠在一起的杯体、杯底部向内凹的扣拉槽和装在杯体最上段外沿上的隔热纸圈构成；杯体的总段数为奇数，处在偶数段上的杯壁较处在奇数段上的杯壁薄，段与段之间的连接处为圆弧连接；下段较与之相连接的上段直径小，杯体由无毒聚乙烯一次注塑而成。

2、按照权利要求1所述的一次性连体折叠杯，其特征在于：在制成的折叠在一起的一次性连体折叠杯的杯口上沾封一层密封膜。

一次性连体折叠杯

本实用新型涉及一种便于携带的一次使用的折叠杯。

现在使用的一次性塑料杯由于不能折叠体积较大，不便于携带。如果携带这种杯外出，塑料杯也容易被挤压坏，并且由于杯口是敞开的，携带过程中也容易被弄脏、不卫生。另外，使用这种杯时，如果是盛热水或热饮料，由于杯壁较薄，端起时容易烫手。

本实用新型的目的在于克服上述现有技术的不足，而提供一种便于携带的一次性连体折叠杯。

本实用新型采取的技术解决方案是，一次性连体折叠杯，其特殊之处在于，它由多段可折叠在一起的杯体，杯底部向内凹的扣拉槽和装在杯体最上段外沿上的隔热纸圈构成，杯体的总段数为奇数，处在偶数段上的杯壁较处在奇数段上的杯壁薄，段与段之间的连接处为圆弧连接，杯体由无毒聚乙烯一次注塑而成。下段较与之相连接的上段直径小。

在制成的折叠在一起的一次性连体折叠杯的杯口上可沾封一层密封膜。

本实用新型相比与现有技术具有如下优点：

1、杯子可以折叠起来便于携带。当杯子注塑而成后，向下一压，由于处在偶数段上的杯壁较薄，所以比较柔软、可以弯折，这样整个杯子就可以压缩成一段的高度，便于携带。当使用时将杯子拉开就恢复成原状。这种杯子一般就使用一次。

2、杯子上装有隔热纸圈，在盛热水或热饮料时，端杯子不烫手。

3、如果在折叠好的杯子的杯口上沾封一层密封膜，杯子就不会被弄脏，使用时干净卫生。如果在沾封密封膜之前，在杯子里放上奶粉或其它

固体饮料，就成为一种带饮料的方便饮料杯，使用时只要加水就可以喝上可口的饮料，这将有很好商业价值。

本实用新型有三幅附图。

图 1 是一次性连体折叠杯的结构图。

图 2 是一次性连体折叠杯压缩折叠在一起时的剖面图。

图 3 是图 1 的俯视图。

本实用新型将结合附图作进一步说明。

图 1 表示的是杯子注塑成形后粘接上隔热纸圈的状态，也是使用时把子拉开后的状态。在本实施例中杯体由五段组成，最上段 1 直径最大，其外沿上粘接有隔热纸圈 6，段 2 的直径比段 1 的直径小，段 3 的直径比段 2 的直径小，段 4 的直径比段 3 的直径小，最下段 5 直径最小，为杯底段，在杯底上有一个向内凹进的扣拉槽 7，杯体上的偶数段 2、4 的杯壁较奇数段 1、3、5 的杯壁薄，奇数段的杯壁较厚，且为直壁，而偶数段为倾斜壁。杯体也可以由三段，七段或九段组成。杯体由无毒聚乙烯塑料一次注塑而成，注塑好后粘上纸圈 6，向下一压，就形成了图 2 所示的状态。杯体的最上段一般较其它段高一些，这样便于在杯口上沾封上一层密封膜，段与段的连接处为圆弧状 8。

说明书附图

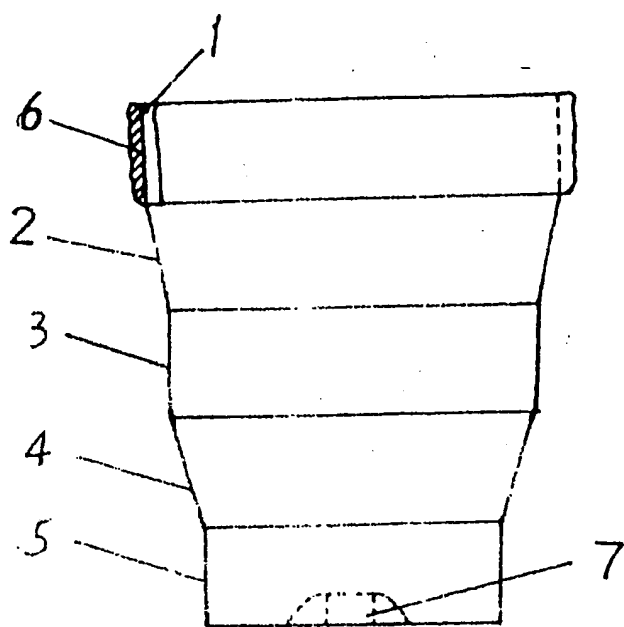


图 1

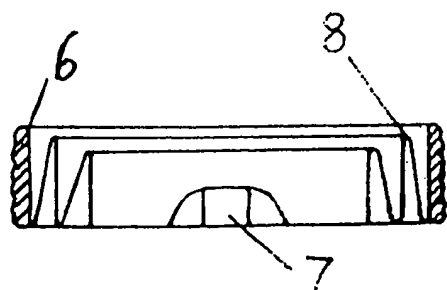


图 2

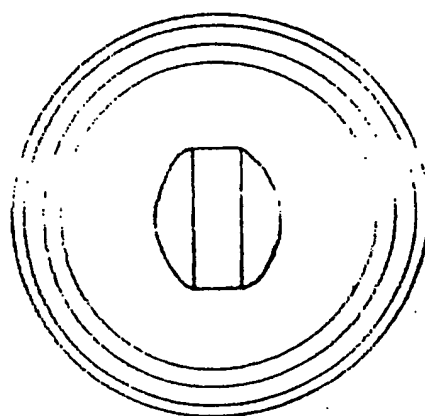


图 3

**[12] Utility Model Patent Application Description**

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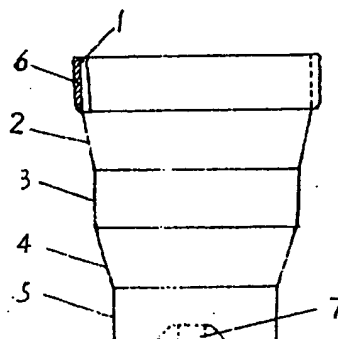
Agent Liu Shumin

2 pages of Description and 1 page of Figures

[54] Title of the Invention: Disposable foldaway cup

[57] Abstract:

The present utility model concerns a one-time use foldaway cup that is convenient to carry. The present utility model overcomes defects of existing one-time use plastic cups of an inability to be folded away, a large size and inconvenience in carrying. The present utility model is composed of a cup body of multiple sections that can be folded together, a locking groove that is concave inward at the cup bottom and an insulating paper ring placed on the uppermost outer edge of the cup body, the cup body being formed through one-time plastic injection and compressing the cup downward enabling it to be folded up.



Claims

1. A disposable connected body foldaway cup, as characterized by: it being composed of a cup body of several sections that can be folded together, a locking groove that is concave inward on the cup bottom and an insulating paper ring placed on the uppermost outer edge of the cup body. The total number of sections of the cup body is an odd number, the cup walls of the even numbered sections being thinner than the cup walls of the odd numbered sections, the connection between the sections being a circular connection; the lower section has a smaller diameter than the upper section connected to it, and the cup body is formed through one-time plastic injection of sterile polyethylene.

2. The disposable connected body foldaway cup according to claim 1, as characterized by: affixing a layer of sealing film on the cup mouth of the disposable connected body foldaway cup that folds together.

Description

A Disposable Connected Body Foldaway Cup

The present utility model relates to a one-time use foldaway cup that is convenient to carry.

The disposable plastic cups currently in use cannot be folded, are large in size and are inconvenient to carry. If this type of cup is carried to the outside, the plastic cup is also prone to being squeezed and damaged, and the cup mouth is open, also being easily contaminated and non-hygienic during the carrying process. Furthermore, when using this type of cup, if it is filled with hot water or a hot beverage, because the cup walls are rather thin, it is prone to burning the hand when being picked up.

The object of the present utility model lies in overcoming the above-described inadequacies of the existing technology and providing a type of disposable connected body foldaway cup that is convenient to carry.

The technical program of the present utility mode is a disposable connected body foldaway cup, as characterized by it being composed of a cup body of several sections that can be folded together, a locking groove concave inward on the cup bottom, and an insulating paper ring placed along the edge of the uppermost section of the cup body; the total number of sections of the cup body is an odd number, with the cup wall of the even numbered sections being thinner than the cup wall of the odd numbered sections, the connection area between sections being a circular connection; the cup body being made from sterile polyethylene. The lower sections have a smaller diameter than the upper sections connected to them.

A layer of sealing film can be affixed in fabrication for sealing on the cup mouth of the disposable connected body foldaway cup that folds together.

The present utility model has the following advantages compared to existing technology:

1. The cup can be folded together for convenience in carrying. After the cup is made through plastic injection, it is compressed downward; the cup walls of the even numbered sections are thinner, so it is rather soft and can be bent, and in this way the entire cup can be compressed to the height of one section for convenience in carrying. During use the cup is pulled open and returns to the original shape. This type of cup generally can be used one time.

2. The cup is fitted with an insulating paper ring so that when filled with hot water or a hot beverage the cup when picked up does not burn the hand.

3. If a layer of sealing film is affixed to seal the cup mouth of the folded cup, the cup will not become contaminated and is clean and hygienic when used. If powdered milk or other solid

beverages are placed in the cup, it becomes a convenient beverage cup for carrying beverages, and during use only requires the addition of water to enable drinking of the beverage, which will have very good commercial value.

The present utility model has three attached drawings.

Figure 1 is a structural diagram of the disposable connected body foldaway cup.

Figure 2 is a cross-sectional diagram of the disposable connected body foldaway cup compressed and folded together.

Figure 3 is a top view of Figure 1.

The present utility model will be described further in conjunction with the attached drawings.

Figure 1 shows the state of affixing an insulating paper ring after plastic injection forming of the cup and is also the state of the cup¹ being pulled open during use. The cup body in this embodiment is comprised of five sections, the diameter of the uppermost section 1 being the largest. There is an insulating paper ring 6 affixed on its outer edge, the diameter of section 2 being smaller than the diameter of section 1 and the diameter of section 3 being smaller than the diameter of section 2, the diameter of section 4 being smaller than the diameter of section 3, and the diameter of the lowermost section 5 being the smallest and being the cup bottom section, there being a locking groove 7 that is concave inward on the cup bottom; the cup walls of the even numbered sections 2 and 4 are thinner than the cup walls of the odd numbered sections 1, 3 and 5, the cup walls of the odd numbered sections being thicker and being straight walls, whereas the even numbered sections are sloping walls. The cup body can also be composed of three sections, seven sections or nine sections. The cup body is formed through one-time plastic injection of sterile polyethylene plastic, the paper ring 6 affixed following the plastic injection being compressed downward, thus forming the state showed in Figure 2. The uppermost section of the cup body is generally somewhat higher than the other sections, in this way facilitating the affixing a layer of sealing film on the cup mouth for connection of the sections in the circular shape 8.

¹ Translator's note: The first character in the two-character compound that means "cup" is missing here, and I have corrected the error based on the context.

Diagrams Attached to the Description

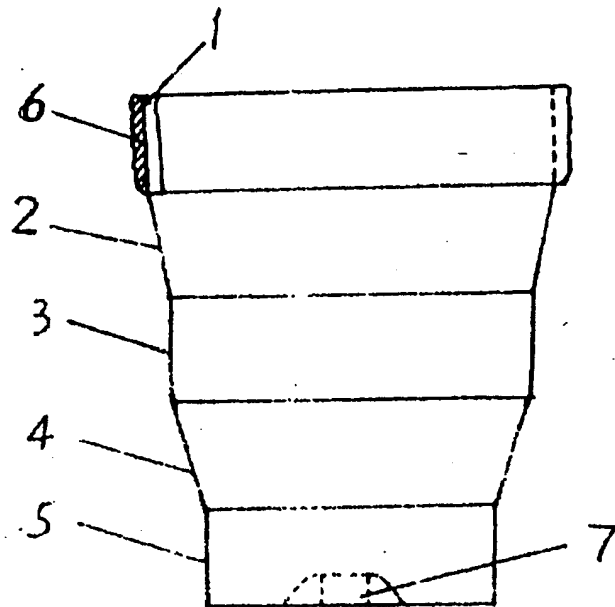


Figure 1

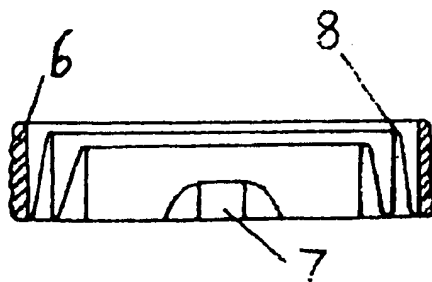


Figure 2

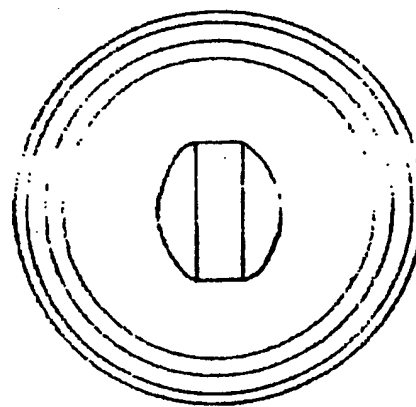


Figure 3